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Device for producing film tracks from a film tube

Patent Claims

1. Device for manufacture of film tracks (7,17) of a film tube (1)
 - with a lay-flat device (2), which consists preferably of two lay-flat plates (12, 22) with a mutual roof-like formation, whereby their distance decreases in the direction of conveyance (z) of the tube
 - and a squeeze roller device (3), which consists preferably of a squeeze roller pair (13, 23),
 - and at least a cutting device (4, 5), which slits the film tube along its direction of conveyance

characterized in that

in the direction of the film tube (z), before the squeeze roller device (3), at least one pre-squeeze device (6) is provided,

 - which leaves a remainder of air in the film tube, so that in the region between the squeeze roller device (3) and at least one pre-squeeze roller device (6), a static air cushion is formed,
 - and that the film tube (1) can be slit with the cutting device (4, 5) in the region of the static air cushion (9).
 - 2 Device according to claim 1
- characterized in that**

before the lay-flat device (2), in the direction of conveyance (z) of the film tube (1), the pre-squeeze device (6) is positioned.

3. Device according to claim 1
characterized in that
the pre-squeeze device (6) consists of a pre-squeeze roller pair (16, 26)
4. Device according to one of the above claims
characterized in that
a reversing device, which reverses the foil tracks (7,17) generated in the slitting process with the cutting devices (4, 5), while the film tracks are lying apart.
5. Device according to one of the above claims
characterized in that
the pre-squeeze rollers (13, 21) of the pre-squeeze roller pair are arranged mutually in such a fashion that the walls of the film tube touch each other at least while passing through the pre-squeeze roller pair.
6. Device according to the above claim
characterized in that
a reversing device (100), in which the film tracks (7,17) can be conveyed bypassing one of the reversing air turning bar (103, 105) and at least one idle roller (102, 104).
7. Device according to claim 1
characterized in that
the reversing device (100) includes at least one function pair, built out of an air turning bar (103, 105) and an idle roller (102, 104), whereby the air turning bar (103, 105) and the idle bar (102, 104) carry out a reversing motion about an axis that is orthogonal to the direction of revolution of the idle roller.

8. Method for manufacture of film tracks (7,17) from a film tube (1)
- whereby the film tube is laid flat with a lay-flat device (2), which (2) consists preferably out of two lay-flat plates (12, 22) in a mutual roof-like formation, whose distance decreases in the direction of the conveyance (z) of the tube,
 - and one pre-squeeze device (3), which consists preferably of a pre-squeeze roller pair (13, 23), squeezes the tube
 - and at least one cutting device (4, 5) slits the film tube along its direction of conveyance.

characterized in that

- a pre-squeeze device (6), which is provided in the direction of the conveyance of the film tube (z) before the pre-squeeze roller device (3), carries out the pre-squeezing of the film tube (1), whereby a residual amount of air forms remains in the film tube (1), so that a static air cushion forms in the region between the squeeze roller device (3) and at least one pre-squeeze roller device (6),
- and that the film tube (1) is scratched in the region of the static air cushion (9) by means of the cutting device (4, 5).

9. Method according to the above claim,

characterized in that

at least two film tracks, which form due to the slitting through of the film tube, are guided through a reversing device after passing through the squeezing roller pair, whereby a part of the regions of the at least two film track touch each other.